RESEARCH POSITIONS

Postdoctoral Researcher, FAPESP funded position under the supervision Jul. 2023 - Present of Ali Tahzibi, Universidade de São Paulo, São Carlos, Brazil

Postdoctoral Research Associate, EPSRC funded position under the supervision of Mark Holland, The University of Exeter, Exeter, United Kingdom

Apr. 2022 - Apr. 2023

Postdoctoral Researcher, under the supervision of Sylvain Crovisier, Université Paris Saclay (CNRS), Paris, France

Sep. 2021 - Mar. 2022

EDUCATION

PhD. Mathematics, under the supervision of Mark Holland and Dalia Ter-Oct. 2016 - Jan. 2021 hesiu,

MSci Mathematics, University of Bristol

Sep. 2012 - Sep. 2016

PUBLICATIONS AND PREPRINTS

- [1] Douglas Coates and Stefano Luzzatto. "Persistent Non-statistical Dynamics in One-Dimensional Maps". In: Communications in Mathematical Physics 405.4 (Apr. 2024), p. 102. ISSN: 1432-0916. DOI: 10.1007/s00220-024-04957-0. URL: https://doi.org/10.1007/s00220-024-04957-0.
- [2] Douglas Coates, Stefano Luzzatto, and Mubarak Muhammad. "Doubly Intermittent Full Branch Maps with Critical Points and Singularities". In: Communications in Mathematical Physics 402.2 (2023), pp. 1845–1878. DOI: 10.1007/s00220-023-04766-x. URL: https://doi.org/10.1007/s00220-023-04766-x.
- [3] Douglas Coates. "Semi-Stable Laws for Intermittent Maps". 2021. URL: https://ore.exeter.ac.uk/repository/handle/10871/124410.
- [4] Douglas Coates, Mark Holland, and Dalia Terhesiu. "Limit Theorems for Wobbly Interval Intermittent Maps". In: Studia Mathematica 261.3 (2021), pp. 269–305. ISSN: 0039-3223. DOI: 10.4064/sm200427-21-11. URL: https://doi-org.uoelibrary.idm.oclc.org/10.4064/sm200427-21-11.

VISITING POSITIONS

Visitor of <i>Katrin Gelfert</i> , Universidade Federal do Rio de Janeiro , Rio de Janeiro, Brazil	Jun. 2023
Visitor of <i>Lorenzo Diaz</i> , Pontifícia Universidade Católica do Rio de Janeiro , Rio de Janeiro, Brazil	May 2023
Visitor of Ali Tahzibi, University of São Paulo, ICMC, São Carlos, Brazil	Nov. 2022
Visitor of <i>Marcelo Viana</i> , Instituto de Matemática Pura e Aplicada , Rio de Janeiro, Brazil	Oct Nov. 2022
Visitor of Stefano Luzzatto, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy	May - Dec. 2022
Visitor of Stefano Luzzatto, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy	Feb Aug. 2021

TEACHING

English - Fluent,

Italian - Fluent,

Teaching positions Teaching Assistant, Universidade de São Paulo (ICMC), São Carlos, Brazil Responsibilities: lecturing Courses: ergodic theory (graduate course, partial), Stable Laws in Dynamical Systems (specialised mini-course)	Jul. 2023 - present
Academic Program Manager and Senior Tutor, International Mathematics Master (ICTP programme in Pakistan), Responsibilities: problems classes, lecturing, course preparation, administration, exam writing, supervision of master's thesis Courses: commutative algebra, real analysis and measure theory, differential geometry, probability, dynamical systems, functional analysis, differential equations	Jul. 2020 - Jan. 2022
Teaching Assistant at ICTP, Trieste, Italy Responsibilities: problems classes, homework marking Courses: dynamical systems and ergodic theory (master's level)	Feb Aug. 2021
Teaching Assistant at the University of Exeter, Exeter, UK <i>Responsibilities</i> : problems classes, exam marking, homework marking <i>Courses</i> : mathematical structures (1st year), mathematical methods (1st year), signals series and transforms (2nd/3rd year), stochastic processes (2nd/3rd year), metric spaces and topology (3rd/4th year)	2016 - 2020
Short courses Limit theorems in dynamical systems using transfer operator methods - 6 hour mini-course joint between PUC-UFRJ	Jun. 2023
Markov-chains and the Perron-Frobenius theorem - 6 hour online preparatory mini-course for the "VII Escola Brasileira de Sistemas Dinâmicos"	Oct. 2023
SELECTED RESEARCH TALKS	
Conference on Dynamics and Finance: from KAM Tori to ETFs - ICTP	Oct. 2023
IMPA	July 2023
EDAI meeting - PUC	May 2023
University of Exeter	Apr. 2023
Universidade de São Paulo	Nov. 2022
Jangada Dinamica Conference - Universidade Federal do Ceará	Nov. 2022
Université Paris Saclay	Sep. 2021
University of Bristol	Oct. 2019
University of Exeter	Jan. 2018
EVENTS ORGANISED/CO-ORGANISED	
Probabilistic methods for non-stationary dynamical systems - $University$ of $Exeter$	April 2023
LANGUAGES	

Spanish - Proficient,

Portuguese - Intermediate.